



iPhone 6s Plus Rear Case Replacement

Transplant an iPhone 6s Plus into a new rear case.

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INTRODUCTION

Use this guide to replace a bent or damaged rear case, or to swap out the rear case for cosmetic reasons. The rear case serves as the chassis for the entire phone, so replacing it involves removing all the iPhone's components.

You can also use this guide to replace the following parts:

- [IFC Bracket](#)
- Loudspeaker Mount
- Microphone Mount
- Front Panel Clips



TOOLS:

- [iFixit Opening Picks set of 6](#) (1)
- [iOpener](#) (1)
- [P2 Pentalobe Screwdriver iPhone](#) (1)
- [Phillips #000 Screwdriver](#) (1)
- [iFixit Opening Tools](#) (1)
- [SIM Card Eject Tool](#) (1)
- [Suction Handle](#) (1)
- [Spudger](#) (1)
- [Tweezers](#) (1)
- [Flathead 3/32" or 2.5 mm Screwdriver](#) (1)




PARTS:

- [iPhone 6s Plus OEM Rear Panel](#) (1)
- [iPhone 6 Plus/6s Plus/7 Plus Battery Adhesive Strips](#) (1)
- [iPhone 6s Plus NFC Bracket](#) (1)
- [iPhone 6s Plus Loudspeaker Mount](#) (1)
- [iPhone 6s Plus Microphone Mount](#) (1)
- [iPhone 6s Plus Front Panel Clips](#) (1)
- [iPhone 6s Plus Screw Set](#) (1)

Step 1 — Pentalobe Screws




 Before disassembling your iPhone, discharge the battery below 25%. A charged lithium-ion battery can catch fire and/or explode if accidentally punctured.

- Power off your iPhone before beginning disassembly.
- Remove the two 3.4 mm Pentalobe screws on either side of the Lightning port.

Step 2 — Opening Procedure




 Opening the display on the 6s Plus separates a thin strip of adhesive around the perimeter of the display. If you prefer to replace the adhesive, have a set of new adhesive strips ready before you continue. It's possible to complete the repair without replacing the adhesive, and you probably won't notice any difference in functionality.

- Apply a suction cup to the lower left corner of the display assembly.

Step 3



- Pull up on the suction cup with firm, constant pressure to create a slight gap between the front panel and rear case.

 Pulling too hard may damage the display assembly. Apply just enough pressure to create a small gap between the display assembly and the rear case.

Step 4



- The safest place to pry from is the notch in the front panel above the headphone jack.
- While still maintaining pressure on the suction cup, insert the flat tip of a spudger into the gap, directly above the headphone jack.

Step 5



- Twist the spudger to widen the gap between the front panel and the rear case.

Step 6



- While firmly pulling up on the suction cup, slide the edge of the spudger under the bottom left corner of the display.

Step 7



- Slide the tip of the spudger up the left side of the phone, between the front panel and the rear case.

Step 8



- Insert the flat tip of the spudger under the right edge of the display.
- Slide the spudger up the right side.

Step 9



- Use a plastic opening tool to hold down the rear case while pulling up the suction cup to open the phone.

⚠ Do **not** remove the display completely, or you will damage the data cables connecting the display near the top edge of the iPhone.



Step 10



- Pull up on the small nub on the suction cup to remove it from the display.

Step 11



- Gently grasp the display assembly and lift it up to open the phone, using the clips at the top of the front panel as a hinge.
 - Open the display to about a 90° angle, and lean it against something to keep it propped up while you're working on the phone.
-  Don't open the display more than 90°—it is still connected to the top of the phone by the display, digitizer, and front camera cables which can tear easily.
- Add a rubber band to keep the display securely in place while you work. This prevents undue strain on the display cables.
-  In a pinch, you can use an unopened canned beverage to support the display.

Step 12 — Battery Connector



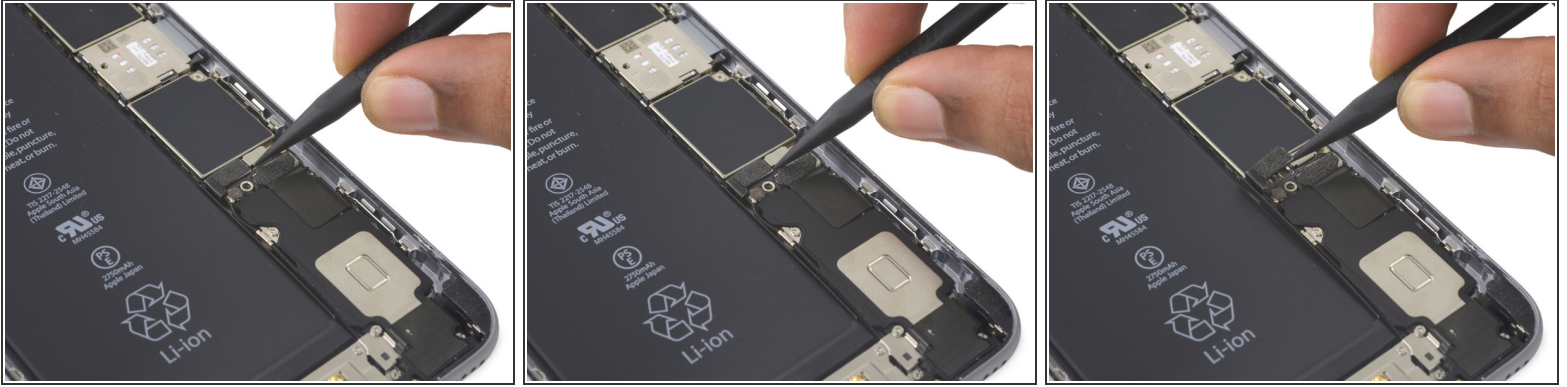
- Remove the following Phillips screws securing the battery connector bracket to the logic board:
 - One 2.9 mm screw
 - One 2.3 mm screw

Step 13



- Remove the battery connector bracket.

Step 14



- Use the pointed tip of the spudger to disconnect the battery connector from the logic board.

Step 15



- Bend the connector back to ensure it doesn't make contact and power the iPhone on while you're working on it.

Step 16 — Display Assembly



- Remove the following Phillips screws:
 - Three 1.3 mm screws
 - One 1.6 mm screw
 - One 3.0 mm screw
- ☑ During reassembly, it's critical to place this 3.0 mm screw in the top-right corner of the bracket. Placing it anywhere else may damage the logic board.

Step 17



- Remove the display cable bracket.

Step 18



⚠ Be careful to only pry up on the connector itself and not the socket on the logic board.

- Use a plastic opening tool to disconnect the front-facing camera and sensor cable connector.

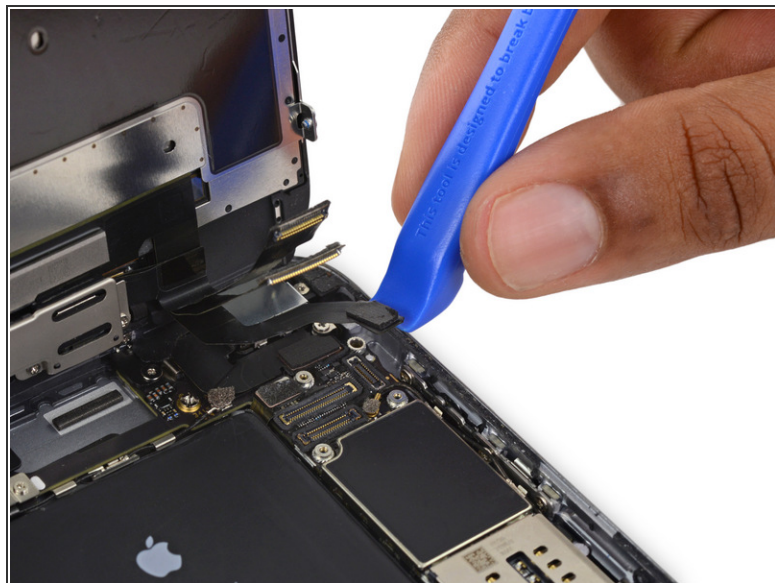
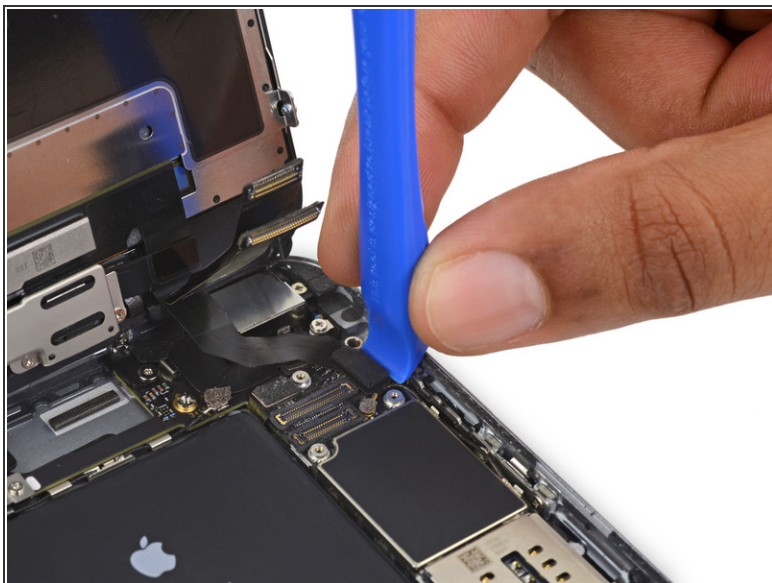
Step 19



- Use a plastic opening tool to disconnect the digitizer cable by prying it straight up from its socket on the logic board.

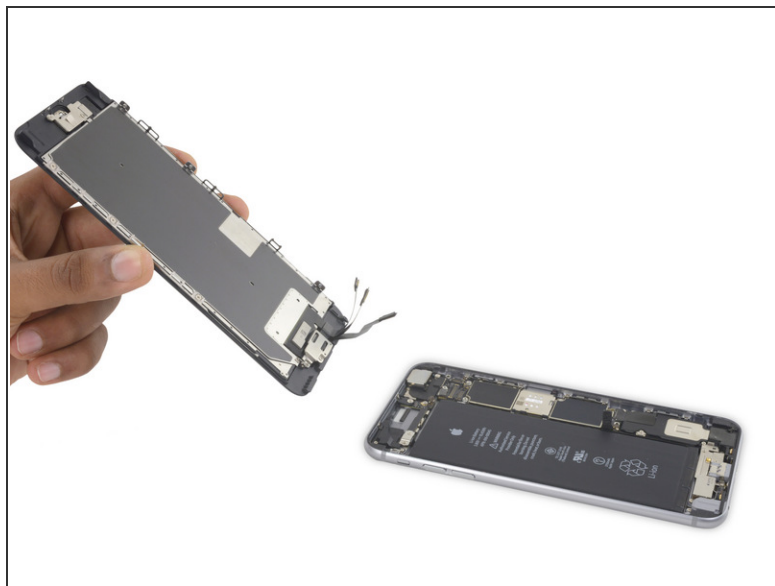
✦ When reconnecting the digitizer cable, **do not press the center of the connector**. Press one end of the connector, then press the opposite end. Pressing in the center of the connector can bend the component and cause digitizer damage.

Step 20



- Use a plastic opening tool to disconnect the display data cable by prying it straight up from its socket on the logic board.

Step 21



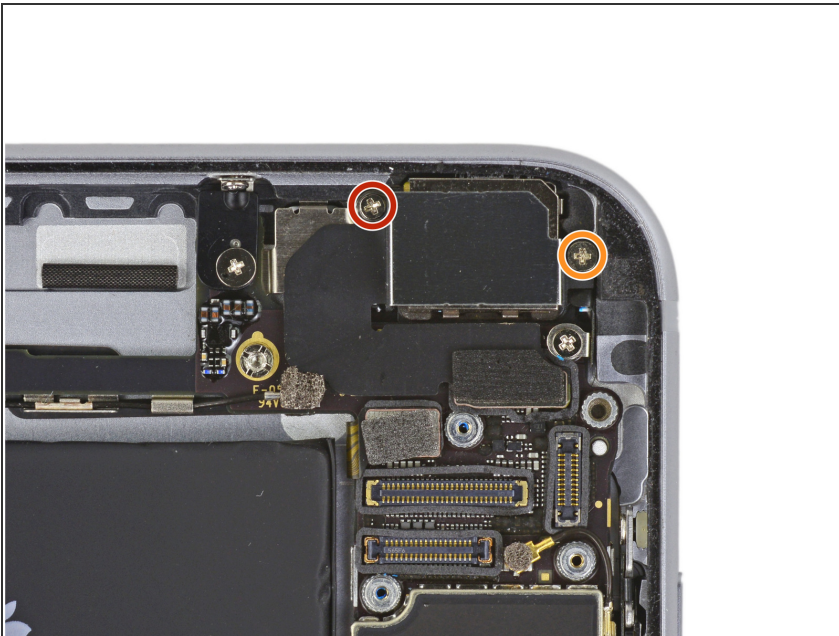
- Remove the display assembly.
- ☑ During reassembly, pause here if you wish to [replace the adhesive around the edges of the display](#).

Step 22 — iSight Camera



- Peel up any tape covering the iSight camera bracket screws.

Step 23



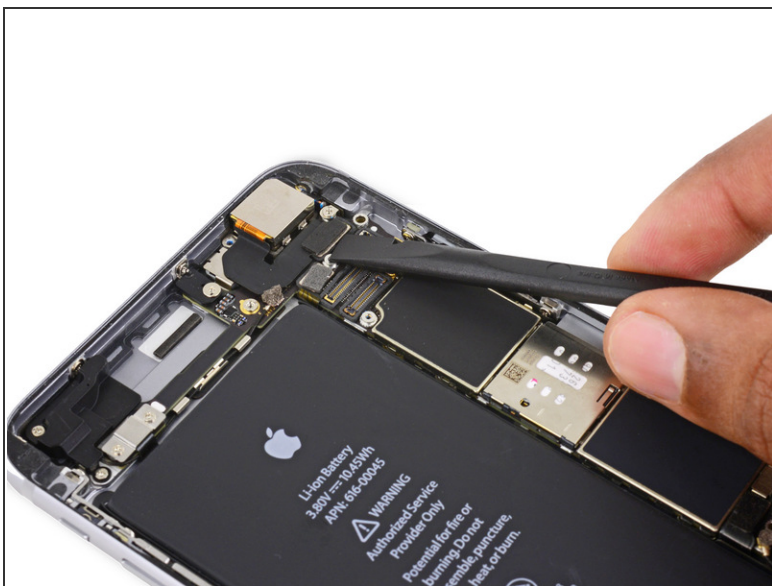
- Remove the following Phillips screws over the camera bracket:
 - One 1.9 mm screw
 - One 2.4 mm screw

Step 24



- Remove the iSight camera bracket.

Step 25



- Disconnect the iSight camera connector from its socket on the logic board.

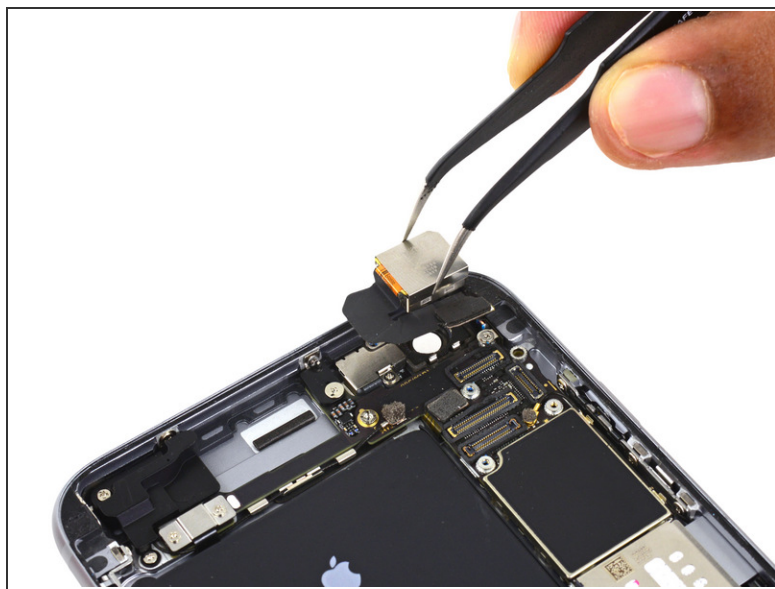
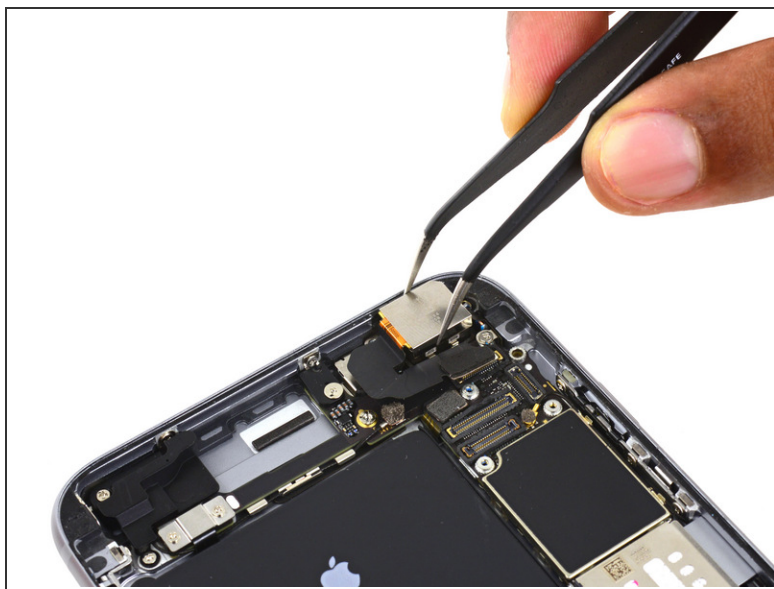
⚠ Be sure to pry up *only* the connector and not the socket on the logic board.

Step 26



- Insert the flat end of the spudger between the iSight camera and rear casing.
- Gently pry the camera out from its housing.

Step 27



- Remove the iSight camera.

Step 28 — SIM Tray



- Insert a SIM eject tool into the hole in the SIM tray.
- Press to eject the SIM tray.

Step 29



- Remove the SIM tray.
- ★ When reinserting the SIM tray, be sure to orient the tray such that the SIM eject hole is on the bottom.

Step 30 — Logic Board



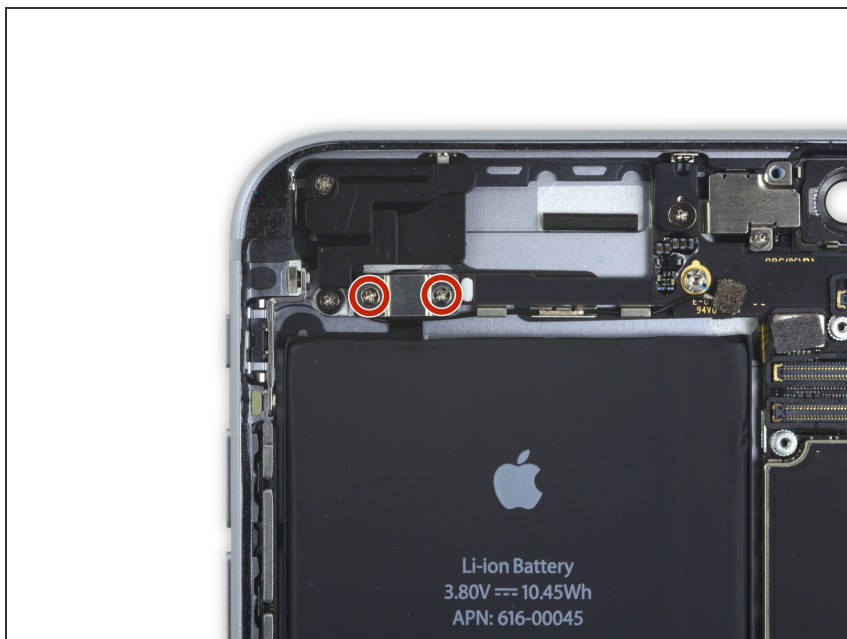
- Remove the single 1.4 mm Phillips screw holding the NFC bracket in place.

Step 31



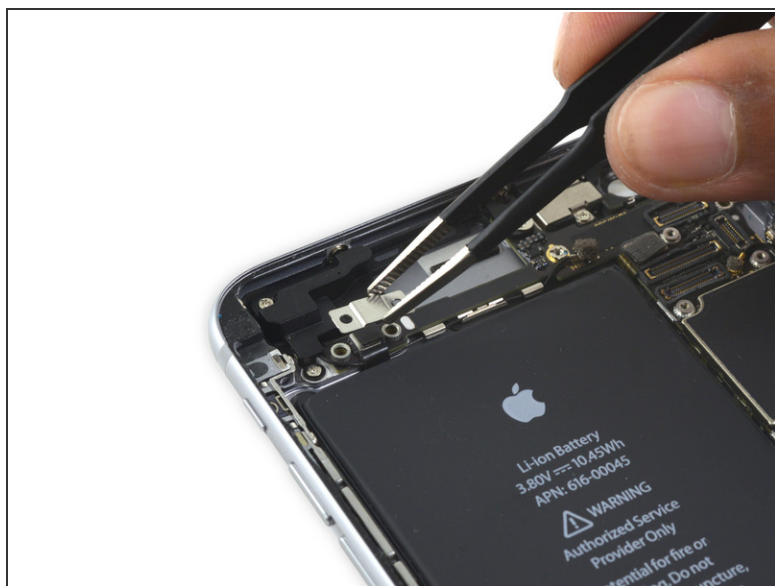
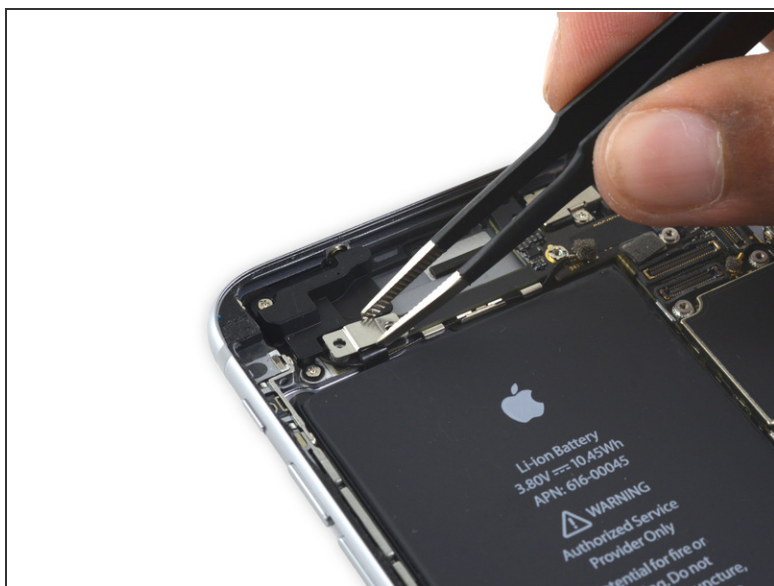
- Remove the NFC bracket.

Step 32



- Remove the two 2.7 mm Phillips screws securing the audio control cable bracket to the logic board.

Step 33



- Remove the audio control cable bracket.

Step 34



- Disconnect the audio control cable by prying its connector straight up from its socket on the logic board.

Step 35



- Disconnect the cellular antenna cable by prying its connector straight up from its respective socket on the logic board.

Step 36



- Disconnect the Wi-Fi diversity antenna cable by prying its connector up from the logic board.

Step 37



- Disconnect the power button flex cable from its socket on the logic board.

Step 38



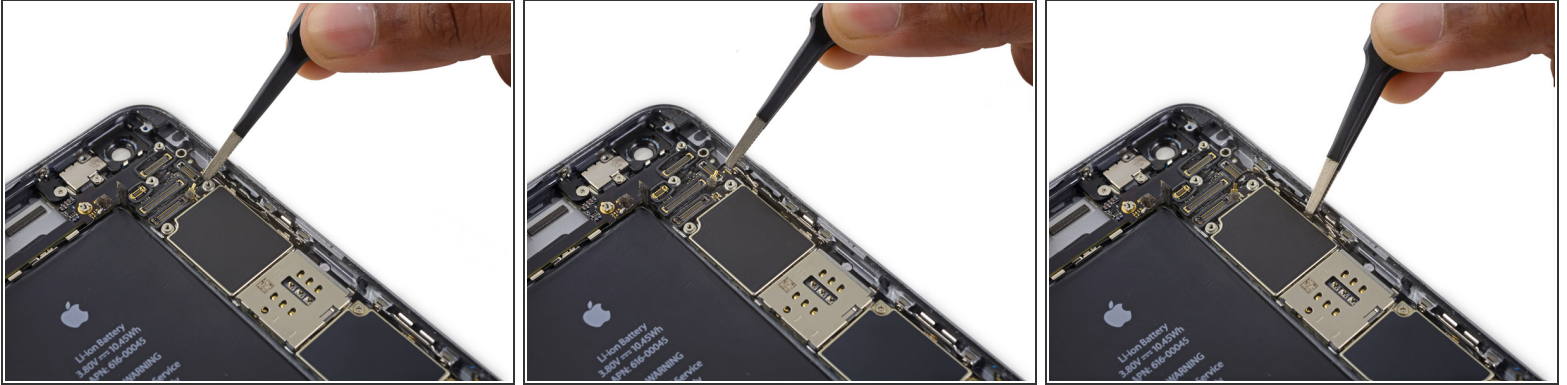
- Disconnect the Lightning connector interconnect antenna cable by prying it up from the logic board.

Step 39



- Use the flat end of a spudger to disconnect the Lightning connector flex cable from the logic board.

Step 40



- Deroute the antenna cable from the two clips on the right edge of the logic board.

Step 41



- Remove the following screws:
 - One 1.3 mm Phillips screw
 - One 2.6 mm Phillips screw
 - One 2.2 mm Phillips standoff screw
- ⓘ Use a small flathead screwdriver to remove this standoff screw.

Step 42



- Remove the bracket.

Step 43



- Deroute the upper left cellular antenna cable from the first logic board clip by nudging it out from under the clip, towards the battery.

Step 44



- Continue derouting the cellular antenna cable from the second and third logic board clips.
- Use the pointed tip of a spudger to gently pry the cellular antenna cable from the middle logic board clip.
- ⚠ Do not pull the cable out of the center clip, as it will tear easily.
- 📌 In order for the cable to reach its socket on the logic board, you must route it above the logic board and underneath the audio control flex cable, as shown in the first photo.

Step 45



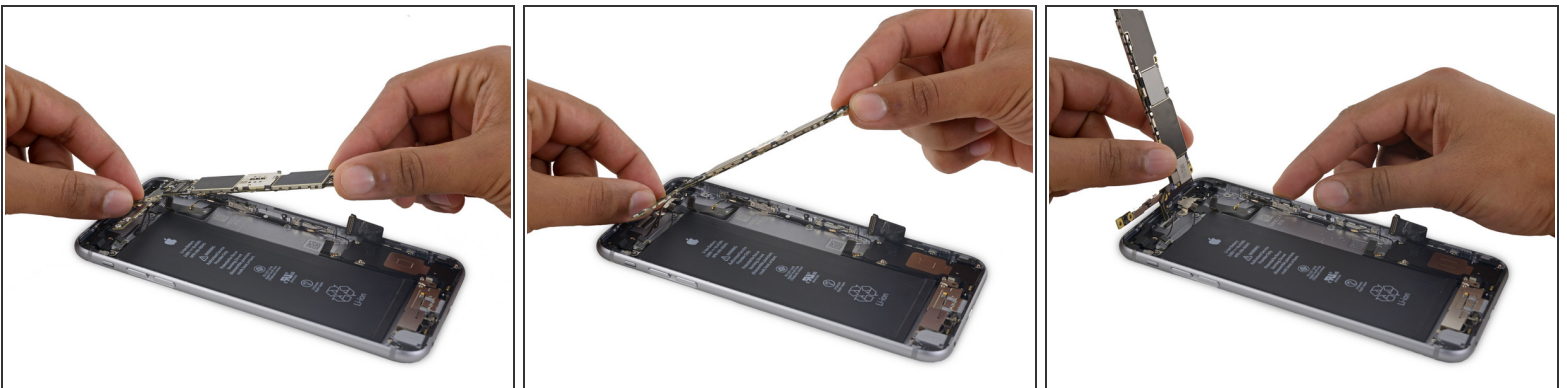
- Remove the final 2.0 mm Phillips screw directly below the SIM card reader.

Step 46




- Carefully raise—but do **not** remove—the logic board, lifting it from the bottom edge nearest the Lightning connector.

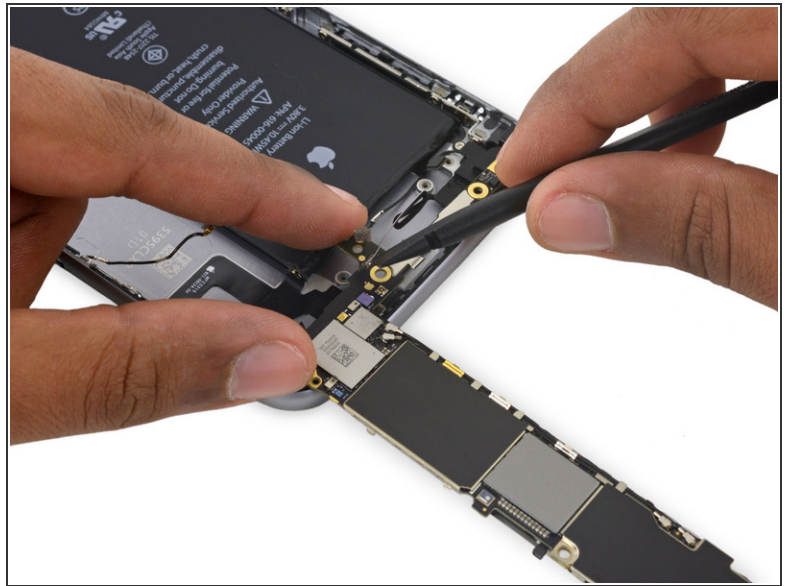
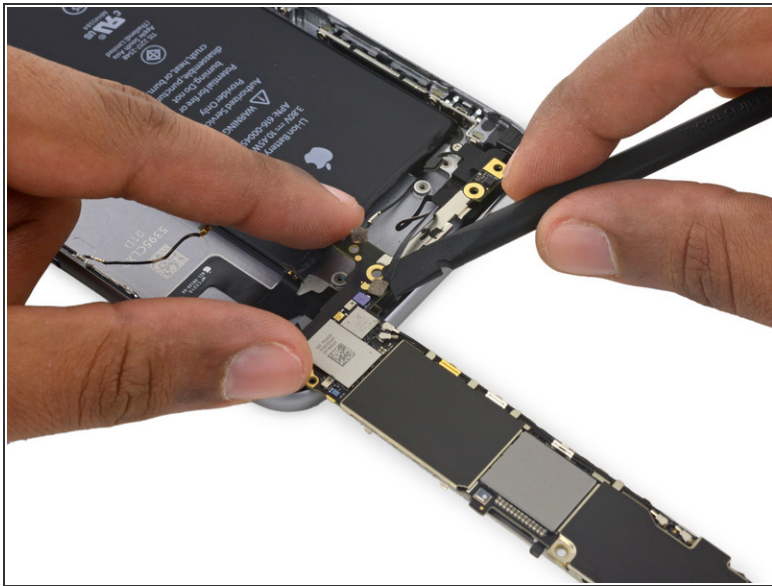
Step 47



- Tip the logic board up to a vertical position to expose the single antenna connector on the underside, near the top edge of the board.

 Do not attempt to fully remove the logic board yet, as the Wi-Fi/Bluetooth antenna is still connected to the underside of the board.

Step 48



- Gently lay the logic board upside-down, with the top portion resting against the rear case of the iPhone.
- Use the flat end of the spudger to disconnect the Wi-Fi/Bluetooth antenna cable from its socket on the back of the logic board.

Step 49



- Remove the logic board.

Step 50 — Speaker Assembly



- Use the flat end of a spudger to peel the Lightning connector flex cable off the speaker.

Step 51



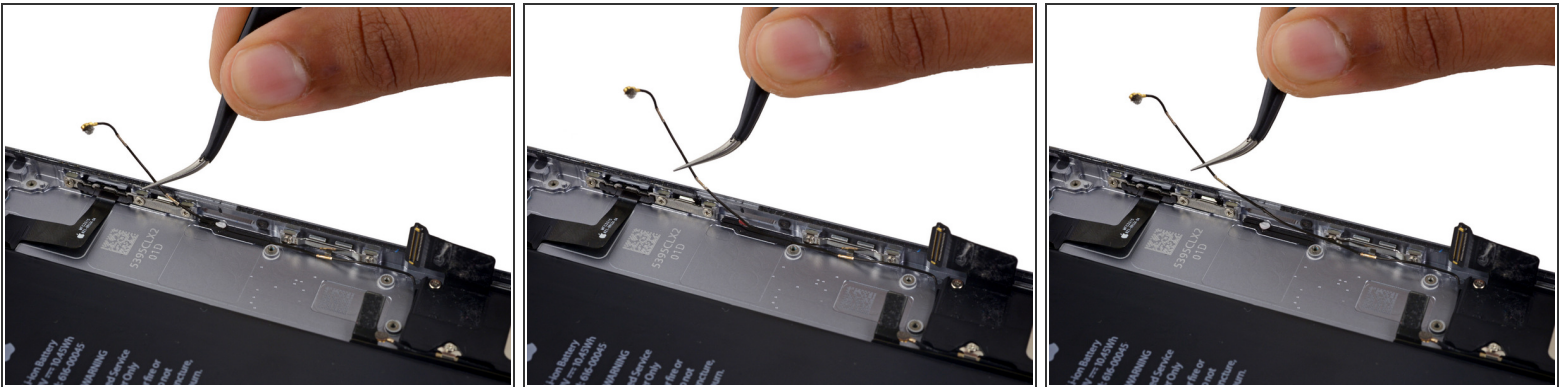
- Remove the following three Phillips screws from the Taptic Engine cable bracket:
 - Two 3.5 mm screws
 - One 2.7 mm screw
- Remove the bracket.

Step 52



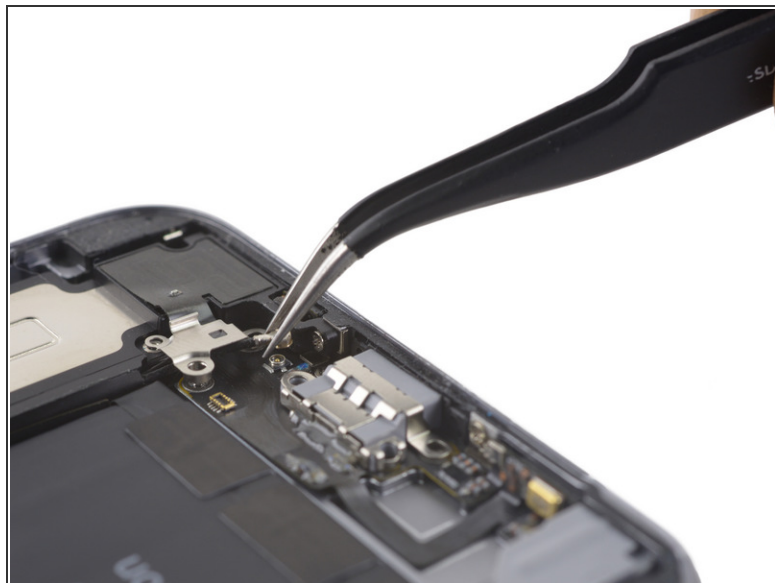
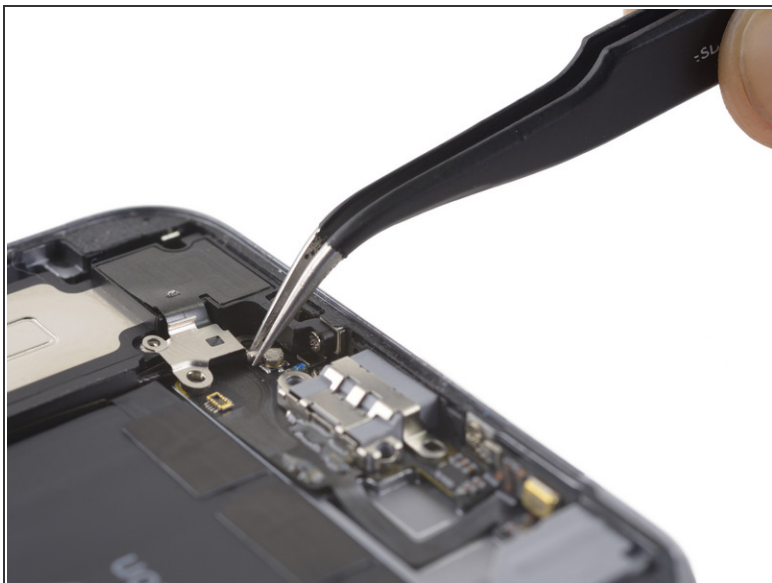
- Remove the five Phillips screws securing the speaker to the rear case:
 - Two 2.7 mm screws
 - One 2.5 mm screw
 - One 1.5 mm screw
 - One 1.7 mm screw

Step 53



- Deroute the Wi-Fi diversity antenna cable from its rubber sleeve.
 - If the white water damage indicator sticker makes it difficult to deroute the antenna cable, gently peel the sticker back for better access.

Step 54



- Use a pair of tweezers to disconnect the Wi-Fi diversity antenna cable from the Lightning connector flex cable.

Step 55



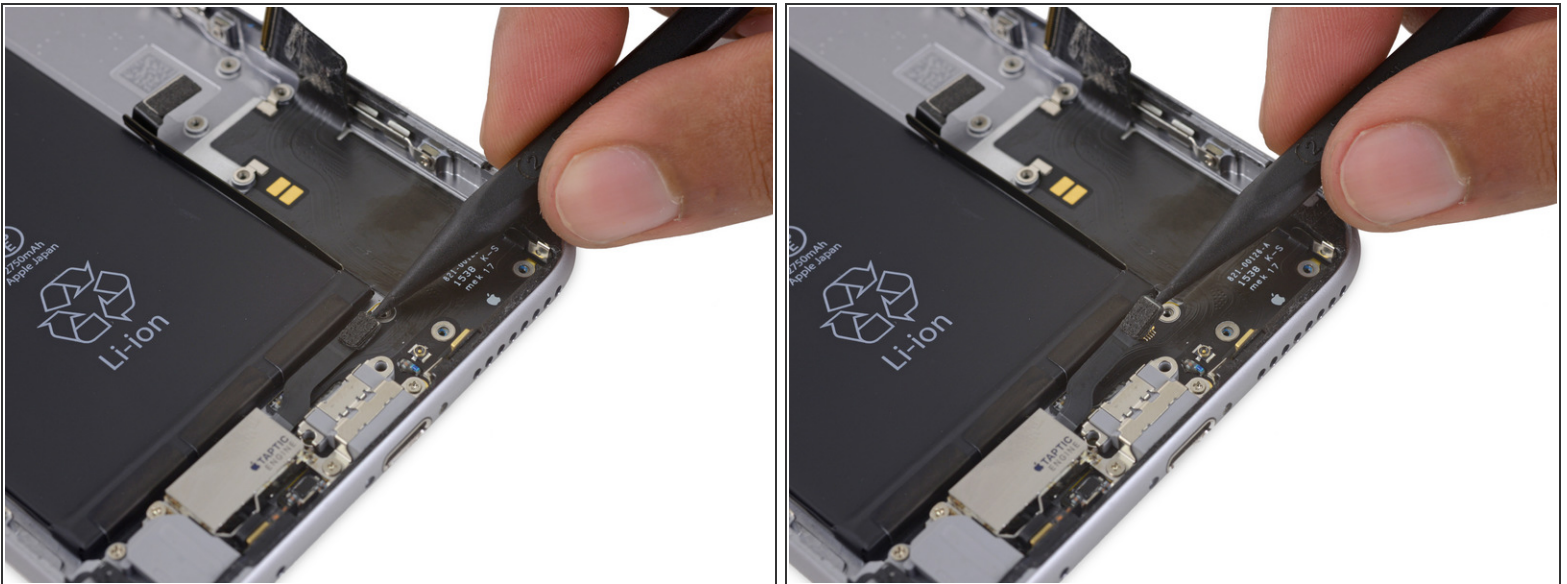
- Remove the final 2.6 mm Phillips screw securing the speaker to the rear case.

Step 56



- Use the flat end of a spudger to lift the speaker assembly out of its housing.
- Remove the speaker assembly.

Step 57 — Lightning Connector and Headphone Jack



- Use the pointed tip of a spudger to disconnect the Taptic Engine flex cable from the lower flex cable.

Step 58



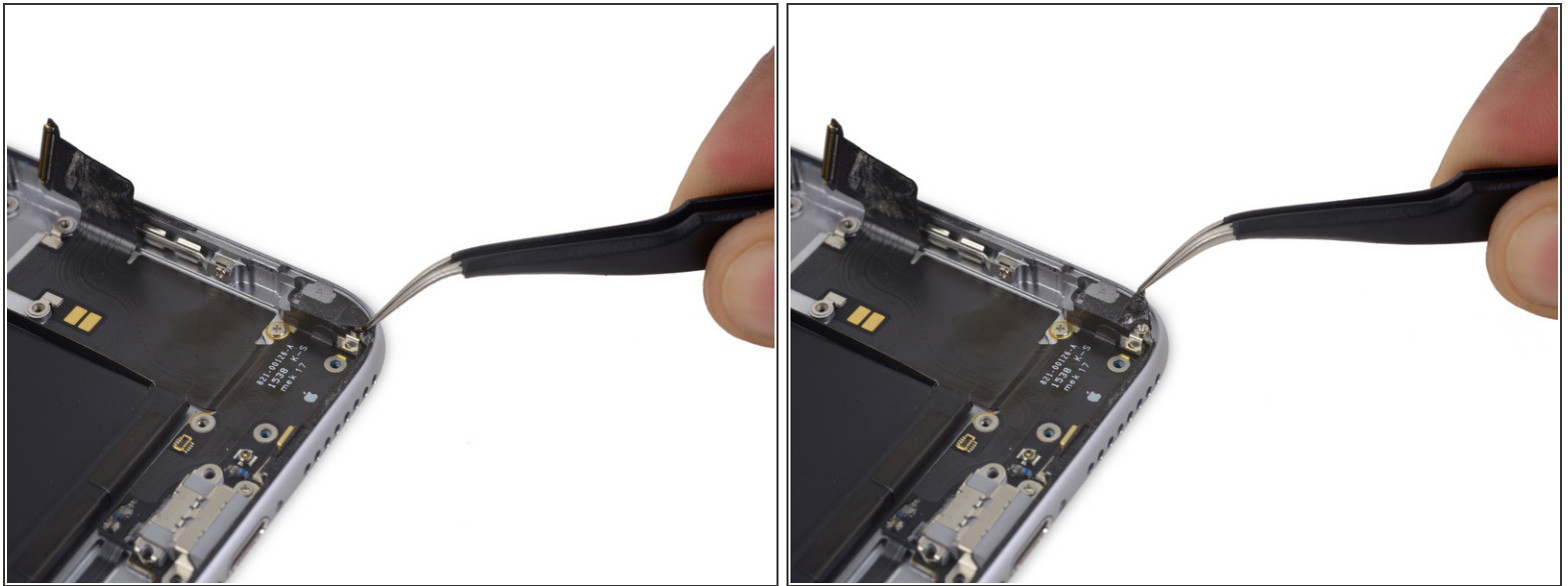
- Remove the following screws holding the Taptic Engine in place:
 - One 3.1 mm Phillips screw
 - One 2.1 mm Phillips screw

Step 59



- Remove the Taptic Engine.

Step 60



- Peel back the tape over the screw securing the Lightning connector flex cable to the lip of the phone.

Step 61



- Remove the following five Phillips screws:
 - One 2.9 mm screw
 - One 1.9 mm screw
 - One 1.5 mm screw
 - One 1.6 mm screw
 - One 1.3 mm screw set into the edge of the rear case

Step 62



- [Prepare an iOpener](#) and lay it across the bottom of the phone to soften the adhesive holding the Lightning connector flex cable in place.
- Wait about a minute for the adhesive to soften before removing the iOpener and continuing.

Step 63



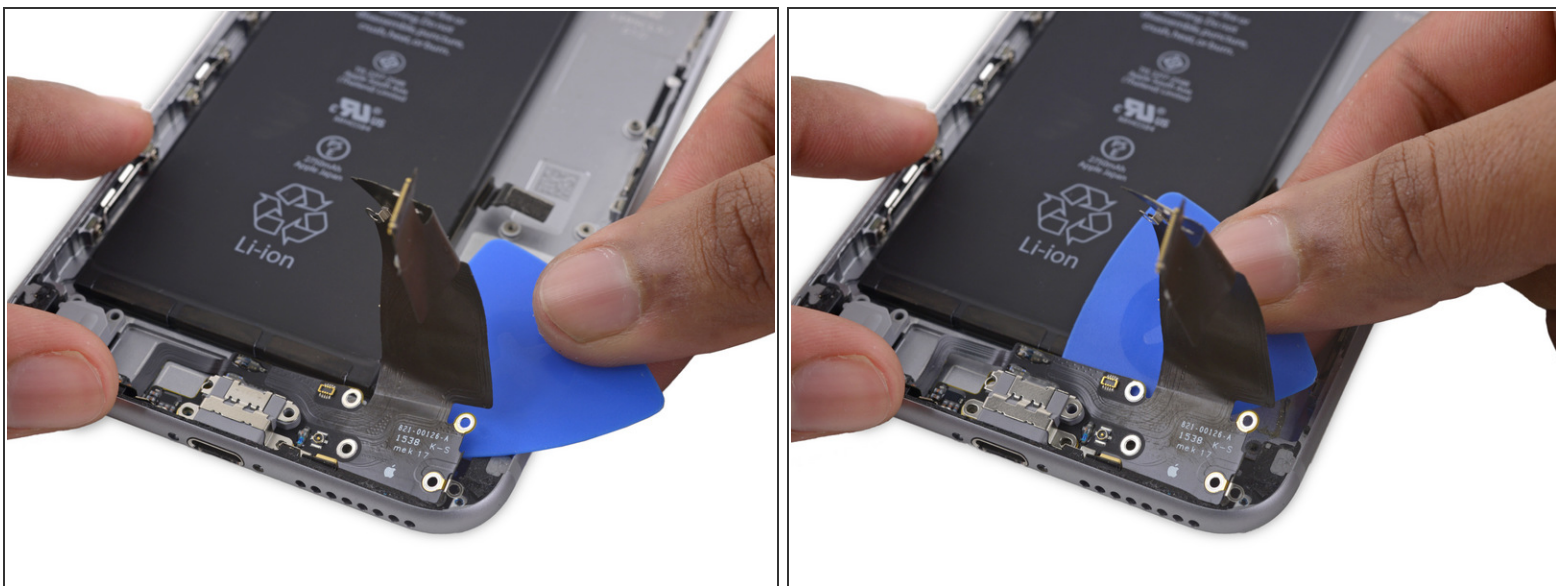
- Insert an opening pick between the flex cable's upper right grounding bracket and the rear case to begin separating the two.

Step 64



- Slowly, apply constant pressure to push the pick along underneath the flex cable, breaking up the adhesive holding it in place.

Step 65



- Continue sliding the opening pick underneath the flex cable.

Step 66



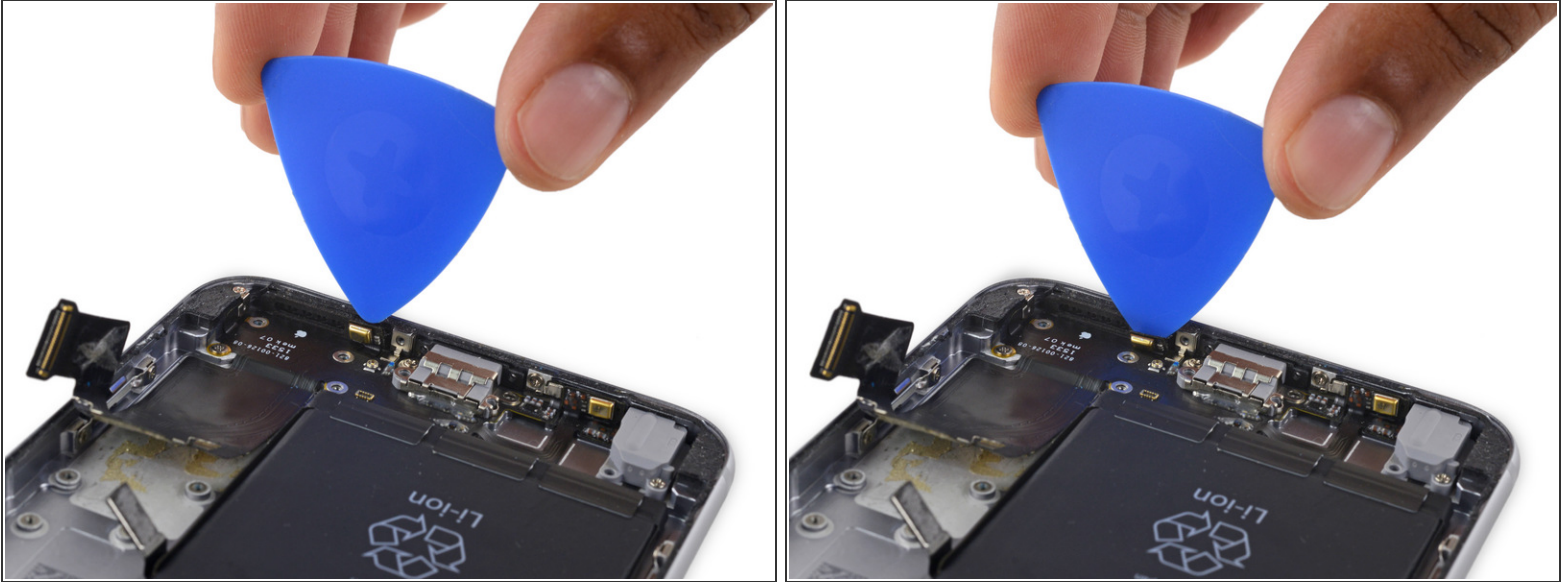
- Use the pointed tip of a spudger to nudge the 3.5 mm headphone jack from its housing in the rear case.

Step 67



- Use an opening pick to pry the left microphone off the edge of the rear case.

Step 68



- Repeat the previous step for the lower right microphone.

Step 69



- Remove the Lightning connector flex cable.

Step 70 — Power Button Cable Assembly



- Remove the following four Phillips screws:
 - Three 2.0 mm screws holding the power button bracket in place
 - One 1.3 mm Phillips screw over the flash and microphone bracket

Step 71



- Remove the flash/microphone bracket.

Step 72



- Use the pointed end of a spudger to lift the flash out of its housing in the rear case.

Step 73



- Use the flat end of a spudger to peel the power button flex cable off the rear case.

Step 74



- Insert the tip of a spudger underneath the microphone portion of the flex cable and gently pry it off of the rear case.

Step 75



- Slide an opening pick underneath the power button flex cable to pry the cable off the rear case.

Step 76



- Remove the power button flex cable.

Step 77 — Power Button Cover



- Gently nudge the power button cover out of its slot in the rear case.

Step 78



- Remove the button cover.

Step 79 — Rear Case



- Remove the following screws holding the cellular antenna in place:
 - One 2.7 mm Phillips screw
 - One 1.7 mm Phillips screw
 - One 1.3 mm Phillips screw

Step 80



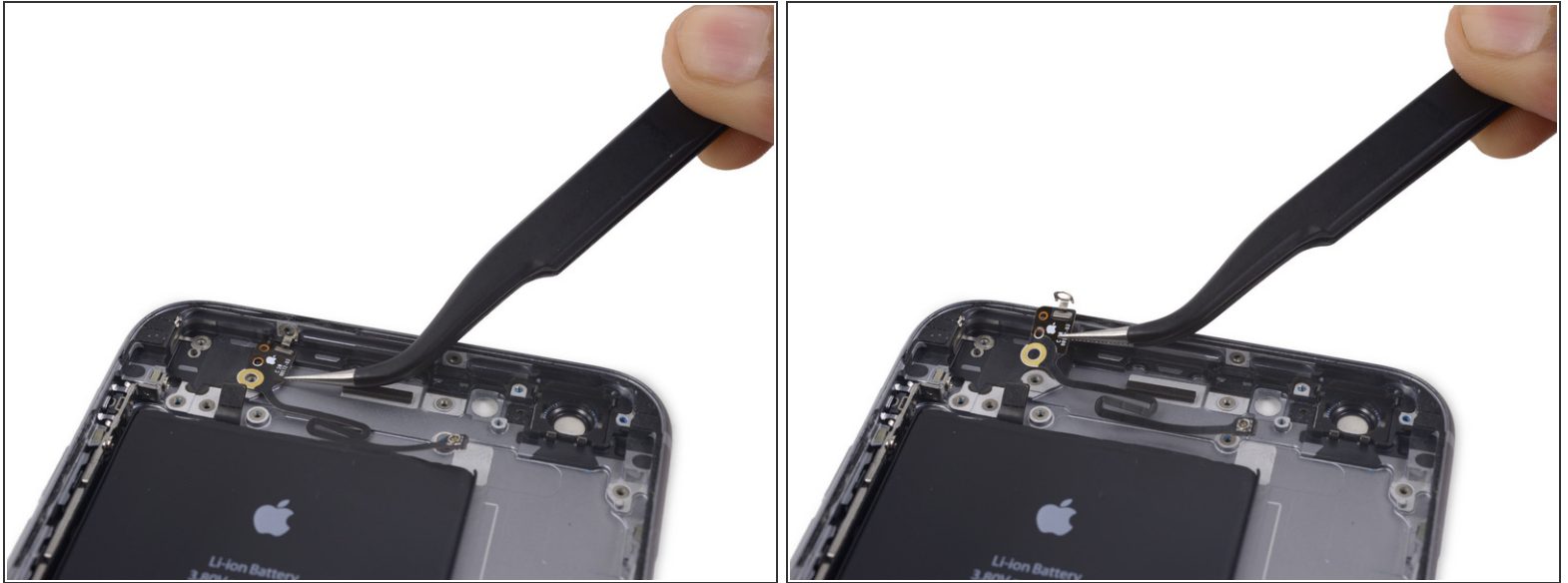
- Remove the cellular antenna.

Step 81



- Remove the single 1.3 mm Phillips screw securing the Wi-Fi/Bluetooth antenna to the rear case.

Step 82



- Remove the Wi-Fi/Bluetooth antenna.

Step 83




- Use a pair of tweezers to peel back the tips of the three battery adhesive strips along the bottom edge of the battery.

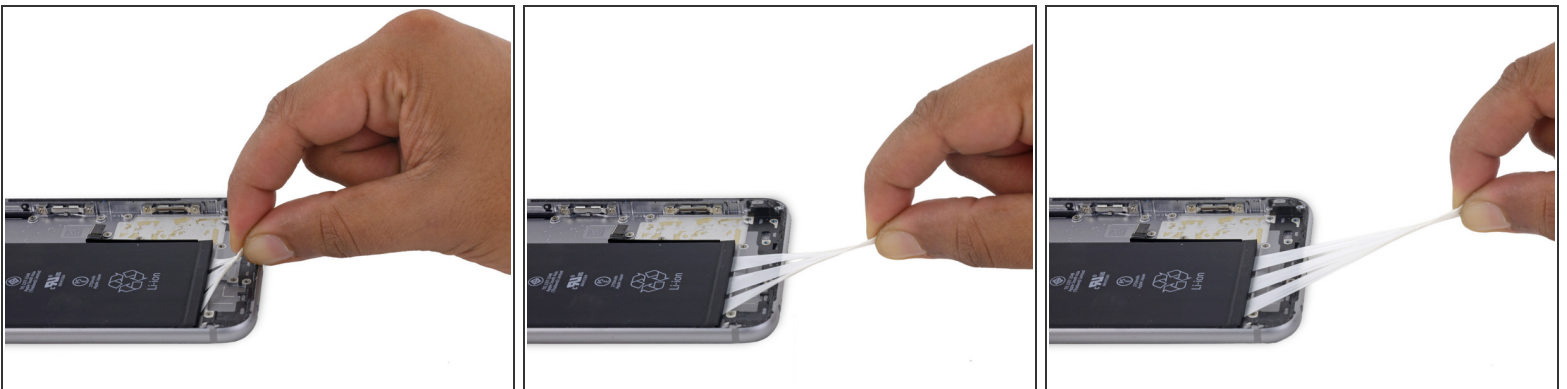
Step 84




- Gather all three tips of the battery adhesive strips in one hand.


 Be sure to not wrinkle any of the strips during this procedure—they will become very difficult to deal with and will not straighten out again.

Step 85



- Pull the adhesive strips straight out, keeping the strips flat and wide until they are completely removed. For best results, pull the strips at a 60° angle or less.

 The strips will stretch to many times their original length. Continue pulling until you completely remove all three strips.

 Hold down the battery with one hand as you're pulling, or the elastic strips will fling the battery from the phone once they're separated from the rear case.

Step 86



- i** If you successfully removed all three adhesive strips, move on to the next step. Otherwise, you will need to pry the battery from the rear case.
- [Prepare an iOpener](#) and apply it to the back of the rear case, directly over the battery. Alternatively, you can apply heat using a heat gun or hair dryer.
 - After about a minute, flip the phone over and use a plastic card to tear through any remaining adhesive.

Step 87



- Remove the battery.

Step 88



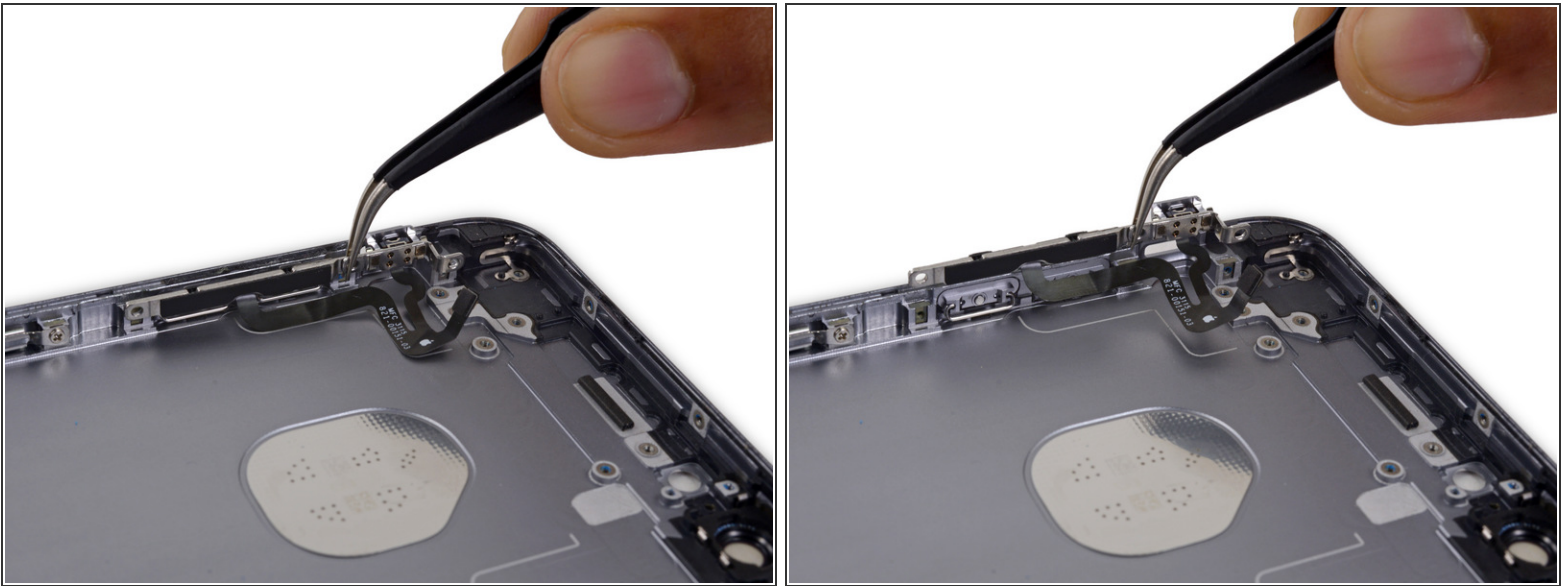
- Remove the three 2.4 mm Phillips screws over the audio control cable bracket.

Step 89



- Use the flat end of a spudger to peel up the volume control flex cable.

Step 90



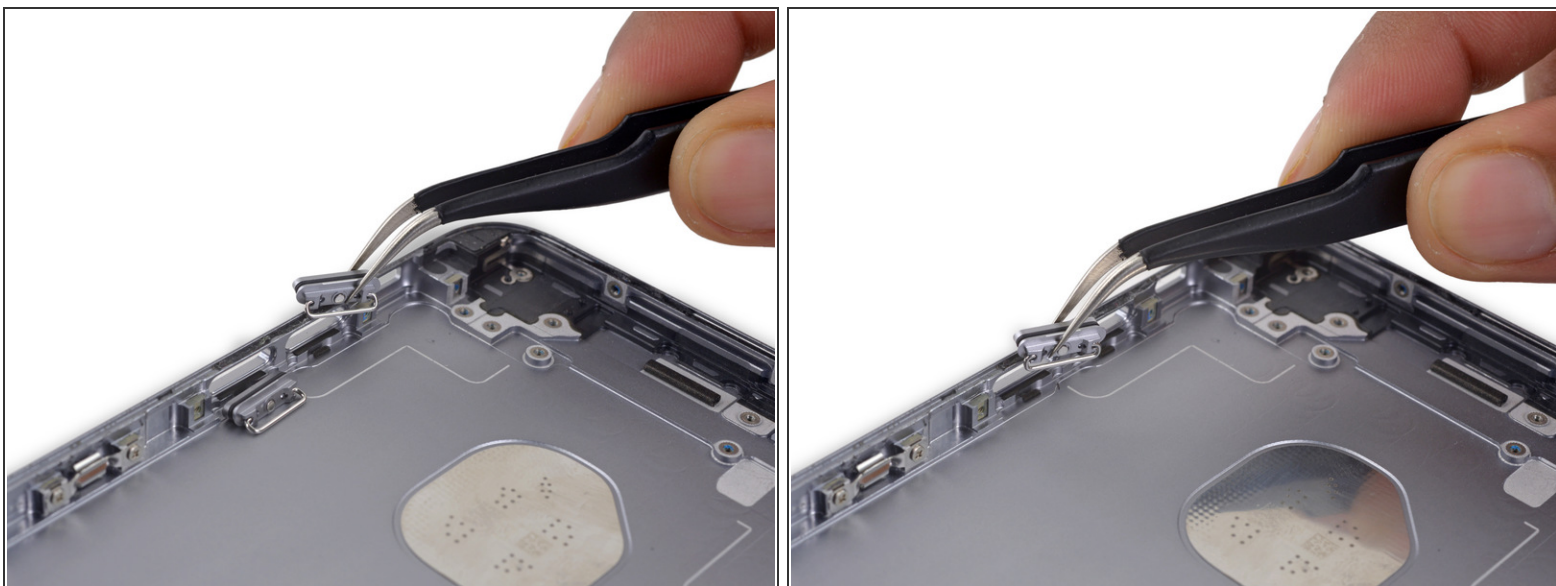
- Remove the volume control flex cable.
- ⚠ During reassembly, put the volume control switch in place first, followed by the mute switch.

Step 91



- Use the pointed tip of a spudger to nudge the volume control button covers out of their slots in the rear case.

Step 92



- Remove the volume control button covers.

Step 93



- Only the rear case remains.

To reassemble your device, follow these instructions in reverse order.

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